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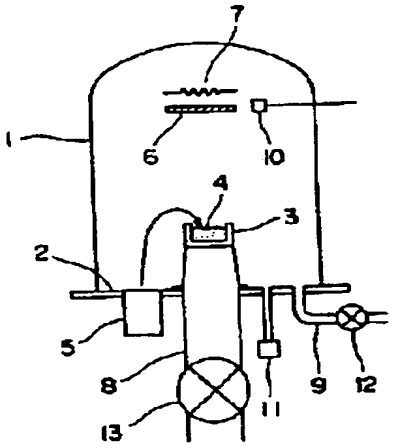
TITLE : MANUFACTURE OF RADIATION IMAGE CONVERSION PANEL



ABSTRACT : PURPOSE: To obtain a radiation image well satisfying the required image sharpness, while satisfying a condition for radiation sensitivity and image graininess by secularly increasing ambient pressure in forming a phosphor layer of accelerated phosphorescence via a vapor phase deposition method.

CONSTITUTION: A substrate 6 is first placed in a vacuum bath 1. This bath 1 is, then, exhausted and the substrate 6 is heated by a heater 7 for cleaning the surface thereof. Thereafter, the temperature of the substrate 6 is set at the predetermined level and a variable leak valve 12 is opened to introduce ambient gas and pressure in the bath 1 is set at the predetermined degree of vacuum. Then, an electron beam is irradiated from an electron beam generator 5 to a vaporization source 4 (phosphor layer of accelerated phosphorescence or the like), thereby vaporizing the source 4. During the aforesaid vaporization process, ambient pressure in the vacuum bath 1 is secularly increased. The ambient pressure is adjusted via the control of the ambient gas introduced in the bath 1 through the valve 12. The ambient pressure P_2 upon the termination of vaporization is set at a level three times or more of ambient pressure P_1 at the time of vaporization start.

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